

GP-301306

KEY DETECTION SWITCH FOR VEHICLE ENTRY  
AND SECURITY SYSTEMS

## ABSTRACT OF THE DISCLOSURE

A vehicle entry and security system includes a key cylinder that is operated using a key. A first cable has one end attached to the key cylinder. A mechanical actuator is attached to an opposite end of the first cable. A second cable has one end attached to the mechanical actuator. A latch is connected to an opposite end of the second cable and releases a door or a trunk. The mechanical actuator triggers a switch when the key operates the key cylinder. A vehicle security system triggers an alarm when the door or trunk is opened without using a key fob. The vehicle security system monitors the state of the switch and prevents the alarm from being triggered when the switch is in a second state. When the key is operated a first number of times within a first period, the vehicle security system reprograms the key fob.

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